

Exhibit O



1805 Berks Road – Worcester, PA 19490

August 1, 2012

Parsons Brinckerhoff
100 South Charles Street
Baltimore, MD 21201
Attention: Robby McDonald

AI Letter: COM0062
AI Job 1020034

RE: Governor Printz Interceptors – Section 1
Contract No. 2010-01, Project 220612

Subject: Rock Blasting Change Order Request

Dear Robby,

Reference is made to our March 12, 2012 Letter of Claim for the additional costs associated with the Rock Blasting on this Project.

In summary, AAM is requesting the County issue a Change order for the additional cost AAM has and will continue to incur due to modifications to the Rock Blasting plan precipitated by Linde, LLC and incorporated into the Contract requirements via the Submittal Approval process. The project correspondence and meeting meetings clearly indicate changes were made to the blasting plan due to Linde's influence over the State Fire Marshall, Parson's, and NCC. These changes were not anticipated at the time of bid and the project Specifications do not indicate approval of the blasting plan would be contingent upon the independent third party review and approval of this Utility Owner. As you know, AAM was issued a Permit by the Fire Marshall (enclosed) which was later revoked due to Linde's involvement and influence over the approval of the blasting plan.

Attached for your review is AAM original cost estimate for the rock blasting along with a revised estimate indicating additional actions and activities being performed on the project that are beyond the scope of this Contract, and over and above what any responsible Contractor could have anticipated during the bidding process. AAM request the County issue a change Order for the cost difference between the As-Bid estimate and the As- Performed Estimate as follows:

Blasting As Performed			\$ 1,293,488.00
Blasting As Bid			\$ 248,383.00
Cost difference			\$ 1,045,105.00
15% Mark-Up			\$ 156,765.75
Total CO Request			\$ 1,201,870.75

If you have any questions, please contact me at 443-506-3451. AAM reserves all its rights and claims, in law and equity, under the Prime Contract associated with, arising from or related to any factor or circumstance regarding this issue.

Sincerely,

A handwritten signature in black ink, appearing to read "Carmen D. Cipriano". The signature is fluid and cursive, with the first name "Carmen" being more prominent.

Carmen D. Cipriano
Senior Project Manager

Attachments: Blasting Permit, 1 page
 Cost Estimate, As-Bid
 Cost Estimate, As-Performed

cc: Richard W. Dungan , AI Maryland VP/GM
George E.Pallas Esq , Cohen Seglias Pallas Greenhall & Furman PC

Exhibit A
Revision



Office of the State Fire Marshal
2307 MacArthur Rd
New Castle, DE 19720



Site Permit

Permit # 90- 11820027 0 Permit date: 01/06/2011 Expire date: 01/06/2012

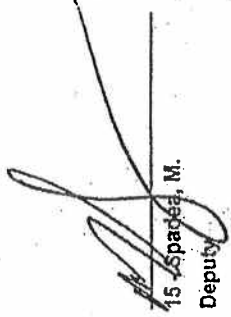
Name: Allan A Myers, LLP
Address: Governor Pmtz at Sunset Drive Claymont De 19703
Individual: Dirk Amole

Authorization is Hereby Granted To:

Use explosives and/or blasting agents at the above location.

Comments/Restrictions/Additions:

Comply with NFPA 495
Mats to be used
Surveys required on 2 buildings

Signed: 
Name: 15 Spadea, M.
Title: Deputy

Activity	Resource	Desc	Pcs	Quantity	Unit	Unit Cost	Labor	Material	Perm	Constr	Mat/Exp	Equip	Ment	Contract	Sub-	Total
PARENT ITEM = 1010																
Description = BLASTING AS PERFORMED																
Unit = LS Takeoff Quan: 1.000 Engr Quan: 1.000																
Listing of Sub-BidItems of Parent Item 1010:																
BID ITEM = 2000																
Description = STEP 1																
Land Item SCHEDULE: 1 100																
Unit = CY Takeoff Quan: 4,220.000 Engr Quan: 0.000																
030203000	MATERIALS															Quan: 1.00 LS Hrs/Shift: 8.50 Cal: 425 WC: 1
202AGSAND	NATURAL SAND			270.00	TN	17.750		4,793								4,793
215142120040	4"x21" PVC Sch40 BE Pipe		50,640.00	LF	0.1600	3.050		154,452								154,452
215142229040	4" PVC Sch40 Coupling Sx		2,110.00	EA	1.6000	3.250		6,858								6,858
S166,102.00						[]		166,102								166,102
030207005	LINE DRILL SIDES OF TRENCH															Quan: 25,088.00 LF Hrs/Shift: 8.50 Cal: 425 WC: 1
L	ONE LABORER			627.20	CH	Eff: 100.00	Prod: 40.0000	UH	Lab Pcs: 1.00	Eqp Pcs: 1.00						
4BLAST	BLASTING - SC			33.00	SH		1,330.000									43,890
8TPU	PICK UP	1.00		627.20	HR		11.000			7,589						7,589
L	LABORER	1.00		627.20	MH		22.000	27.795								27,795
\$79,274.60	0.0250 MH/LF			627.20	MH		[0.623]	27,795		7,589	43,890					79,275
030207000	TRENCH ROCK DRILLING															Quan: 71,000.00 VF Hrs/Shift: 8.00 Cal: 40 WC: 1
L	ONE LABORER			2,679.24	CH	Eff: 100.00	Prod: 26.5000	UH	Lab Pcs: 0.60	Eqp Pcs: 0.60						
4BLAST	BLASTING - SC			465.00	HR		190.000									88,350
8TPU	PICK UP	0.60		1,607.55	HR		11.000			19,451						19,451
L	LABORER	0.60		1,607.55	MH		22.000	69,843								69,843
\$177,644.44	0.0226 MH/VF			1,607.55	MH		[0.548]	69,843		19,451	88,350					177,644
Item Totals: 2000 - STEP 1																
\$423,021.04	0.5295 MH/CY			2,234.75	MH		[12.921]	97,639	166,102		27,040	132,340				423,021
100.242	4220 CY							23.14	39.36		6.41	31.34				100.24
BID ITEM = 2010																
Description = STEP 2																
Land Item SCHEDULE: 1 100																
Unit = CY Takeoff Quan: 4,220.000 Engr Quan: 0.000																
030207505	BLASTING PLAN															Quan: 1.00 EA Hrs/Shift: 8.50 Cal: 425 WC: 1
4BLAST	BLASTING - SC			1.00	EA		2,500.000								2,500	2,500
030201000	REMOVE OVERBURDEN															Quan: 17,000.00 CY Hrs/Shift: 8.50 Cal: 425 WC: 1
8BS	BLASTING SUPPORT			188.05	CH	Eff: 100.00	Prod: 90.4000	UH	Lab Pcs: 3.00	Eqp Pcs: 5.00						
8EX345	CAT 345 EXC	1.00		188.05	HR		207.660			42,956						42,956
8LR120	VOLVO 120 LOADER	1.00		188.05	HR		79.100			16,362						16,362
8MAC	AIR COMP (100 CFM)	1.00		188.05	HR		10.010			2,071						2,071
8MTB	TRENCH BOX	2.00		376.11	HR		3.000			1,241						1,241
L	LABORER	1.00		188.05	MH		22.000	8,334								8,334
O2	OPER-COMMON	1.00		188.05	MH		28.150	11,912								11,912
O2A	OPER-HOE >1CY	1.00		188.05	MH		28.150	11,912								11,912
\$94,788.00	0.0331 MH/CY			564.15	MH		[0.981]	32,159		62,629						94,788
030201005	BLOW OUT HOLES															Quan: 844.00 EA Hrs/Shift: 8.50 Cal

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Direct Cost Report

07/30/2012 Page 2
11:31

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Labor	Perm Material	Constr Mat/Exp	Equip Ment	Sub- Contract	Total
BID ITEM = 2010										
Description = STEP 2										
				Land Item Unit =	SCHEDULE: 1 100					
					CY	Takeoff Quan:	4,220.000	Engr Quan:		0.000
middle 1/3 of holes										
EBS	BLASTING SUPPORT		85.00 CH	Eff: 100.00	Prod:	9.9294 UH	Lab Pcs:	3.00	Eqp Pcs:	5.00
8EX345	CAT 345 EXC	1.00	85.00 HR		207.660			19,416		19,416
8LR120	VOLVO 120 LOADER	1.00	85.00 HR		79.100			7,396		7,396
8MAC	AIR COMP (100 CFM)	1.00	85.00 HR		10.010			936		936
8MTB	TRENCH BOX	2.00	170.00 HR		3.000			561		561
L	LABORER	1.00	85.00 MH		22.000	3,767				3,767
O2	OPER-COMMON	1.00	85.00 MH		28.150	5,384				5,384
O2A	OPER-HOE >1CY	1.00	85.00 MH		28.150	5,384				5,384
\$42,844.90	0.3021 MH/EA		255.00 MH	[8.929]	14,536			28,309		42,845
030207400	BLASTER - LOAD HOLES - MIDDLE 1/3			Quan:	844.00 EA	Hrs/Shift:	8.50	Cal:	425	WC: 1
4BLAST	BLASTING - SC		233.00 HR		90.000				20,970	20,970
030207450	PLACE LOOSE FILL BACK IN TRENCH			Quan:	17,000.00 CY	Hrs/Shift:	8.50	Cal:	425	WC: 1
EBS	BLASTING SUPPORT		289.00 CH	Eff: 100.00	Prod:	58.8235 UH	Lab Pcs:	3.00	Eqp Pcs:	5.00
8EX345	CAT 345 EXC	1.00	289.00 HR		207.660			66,015		66,015
8LR120	VOLVO 120 LOADER	1.00	289.00 HR		79.100			25,146		25,146
8MAC	AIR COMP (100 CFM)	1.00	289.00 HR		10.010			3,182		3,182
8MTB	TRENCH BOX	2.00	578.00 HR		3.000			1,907		1,907
L	LABORER	1.00	289.00 MH		22.000	12,808				12,808
O2	OPER-COMMON	1.00	289.00 MH		28.150	18,307				18,307
O2A	OPER-HOE >1CY	1.00	289.00 MH		28.150	18,307				18,307
\$145,672.58	0.0510 MH/CY		867.00 MH	[1.507]	49,422			96,251		145,673
030207495	SET MATS			Quan:	4.00 SH	Hrs/Shift:	8.50	Cal:	425	WC: 1
EBS	BLASTING SUPPORT		34.00 CH	Eff: 100.00	Prod:	8.5000 HU	Lab Pcs:	3.00	Eqp Pcs:	5.00
302MATS	BLASTING MATS		33.00 SH		190.000		6,270			6,270
8EX345	CAT 345 EXC	1.00	34.00 HR		207.660			7,766		7,766
8LR120	VOLVO 120 LOADER	1.00	34.00 HR		79.100			2,958		2,958
8MAC	AIR COMP (100 CFM)	1.00	34.00 HR		10.010			374		374
8MTB	TRENCH BOX	2.00	68.00 HR		3.000			224		224
L	LABORER	1.00	34.00 MH		22.000	1,507				1,507
O2	OPER-COMMON	1.00	34.00 MH		28.150	2,154				2,154
O2A	OPER-HOE >1CY	1.00	34.00 MH		28.150	2,154				2,154
\$23,407.94	25.5000 MH/SH		102.00 MH	[753.628]	5,814		6,270	11,324		23,408
030207500	TRENCH ROCK BLASTING			Quan:	1,406.00 CY	Hrs/Shift:	8.50	Cal:	425	WC: 1
5 lbs/cy, caps = 2532 holes x 1.1 = 2786 caps; boosters = 3 x 2532 = 7596 ea										
202AG8	AASHTO#8 (OLD PA#1B)		102.28 TN		15,670					1,603
202BCAPS	BLASTING CAPS		928.00 EA		5,500		5,104			5,104
202BOOSTER	BOOSTER		2,531.00 EA		4,030		10,200			10,200
202EXP	EXPLOSIVES		7,030.00 LB		1,000		7,030			7,030
4BLAST	BLASTING - SC		33.00 HR		90.000				2,970	2,970
\$26,906.66				[]		23,937			2,970	26,907
030207510	SEISMOGRAPH			Quan:	4.00 SH	Hrs/Shift:	8.50	Cal:	425	WC: 1
4SEISMOGRAPH	SEISMOGRAPH		4.00 SH		1,100.000				4,400	4,400
Item Totals: 2010 - STEP 2										
\$361,490.08	0.4237 MH/CY		1,788.15 MH	[12.523]	101,931	23,937	6,270	198,513	30,840	361,490
85.661	4220 CY				24.15	5.67	1.49	47.04	7.31	85.66

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Direct Cost Report

07/30/2012

Page 3
11:31

Activity	Resource	Desc	Pes	Quantity	Unit	Unit Cost	Labor	Perm Material	Constr Mat/Exp	Equip Ment	Sub-Contract	Total
<hr/>												
BID ITEM	=	2020			Land Item	SCHEDULE: 1	100					
Description =	STEP 3				Unit =	CY	Takeoff Quan:	4,220.000		Engr Quan:		0.000
030201000	REMOVE OVERBURDEN			Quan:	17,000.00 CY	Hrs/Shift:	8.50	Cal:	425	WC:	1	
EBS	BLASTING SUPPORT			188.05	CH	Eff: 100.00	Prod:	90.4000 UH	Lab Pcs:	3.00	Eqp Pcs:	5.00
8EX345	CAT 345 EXC	1.00		188.05	HR		207.660			42,956		42,956
8LR120	VOLVO 120 LOADER	1.00		188.05	HR		79.100			16,362		16,362
8MAC	AIR COMP (100 CFM)	1.00		188.05	HR		10.010			2,071		2,071
8MTB	TRENCH BOX	2.00		376.11	HR		3.000			1,241		1,241
L	LABORER	1.00		188.05	MH		22.000	8,334				8,334
O2	OPER-COMMON	1.00		188.05	MH		28.150	11,912				11,912
O2A	OPER-HOE>1CY	1.00		188.05	MH		28.150	11,912				11,912
\$94,788.00	0.0331 MH/CY			564.15	MH	[0.981]	32,159			62,629		94,788
030201003	REMOVE ROCK FROM MIDDLE 1/3			Quan:	1,406.00 CY	Hrs/Shift:	8.50	Cal:	425	WC:	1	
EBS	BLASTING SUPPORT			35.00	CH	Eff: 100.00	Prod:	40.1714 UH	Lab Pcs:	2.00	Eqp Pcs:	4.00
REX345	CAT 345 EXC	1.00		35.00	HR		207.660			7,995		7,995
8MAC	AIR COMP (100 CFM)	1.00		35.00	HR		10.010			385		385
8MTB	TRENCH BOX	2.00		70.00	HR		3.000			231		231
L	LABORER	1.00		35.00	MH		22.000	1,551				1,551
O2A	OPER-HOE>1CY	1.00		35.00	MH		28.150	2,217				2,217
\$12,379.52	0.0497 MH/CY			70.00	MH	[1.414]	3,768			8,611		12,380
030201005	BLOW OUT HOLES			Quan:	1,688.00 EA	Hrs/Shift:	8.50	Cal:	425	WC:	1	
middle 1/3 of holes												
EBS	BLASTING SUPPORT			170.00	CH	Eff: 0.00	Prod:	9.9294 UH	Lab Pcs:	3.00	Eqp Pcs:	5.00
REX345	CAT 345 EXC	1.00		170.00	HR		207.660			38,832		38,832
8LR120	VOLVO 120 LOADER	1.00		170.00	HR		79.100			14,792		14,792
8MAC	AIR COMP (100 CFM)	1.00		170.00	HR		10.010			1,872		1,872
8MTB	TRENCH BOX	2.00		340.00	HR		3.000			1,122		1,122
L	LABORER	1.00		170.00	MH		22.000	7,534				7,534
O2	OPER-COMMON	1.00		170.00	MH		28.150	10,769				10,769
O2A	OPER-HOE>1CY	1.00		170.00	MH		28.150	10,769				10,769
\$85,689.77	0.3021 MH/EA			510.00	MH	[8.929]	29,072			56,618		85,690
030207495	SET MATS			Quan:	9.00 SH	Hrs/Shift:	8.50	Cal:	425	WC:	1	
EBS	BLASTING SUPPORT			76.50	CH	Eff: 100.00	Prod:	8.5000 HU	Lab Pcs:	3.00	Eqp Pcs:	5.00
302MATS	BLASTING MATS			74.25	SH		190.000		14,108			14,108
REX345	CAT 345 EXC	1.00		76.50	HR		207.660			17,475		17,475
8LR120	VOLVO 120 LOADER	1.00		76.50	HR		79.100			6,656		6,656
8MAC	AIR COMP (100 CFM)	1.00		76.50	HR		10.010			842		842
8MTB	TRENCH BOX	2.00		153.00	HR		3.000			505		505
L	LABORER	1.00		76.50	MH		22.000	3,390				3,390
O2	OPER-COMMON	1.00		76.50	MH		28.150	4,846				4,846
O2A	OPER-HOE>1CY	1.00		76.50	MH		28.150	4,846				4,846
\$52,667.88	25.5000 MH/SH			229.50	MH	[753.629]	13,082		14,108	25,478		52,668
030207400	BLASTER-LOAD HOLES- OUTER			Quan:	1,688.00 EA	Hrs/Shift:	8.50	Cal:	425	WC:	1	
4BLAST	BLASTING- SC			466.00	HR		90.000			41,940		41,940
030207500	TRENCH ROCK BLASTING			Quan:	2,814.00 CY	Hrs/Shift:	8.50	Cal:	425	WC:	1	
5 lbs/cy, caps = 2532 holes x 1.1 = 2786 caps; boosters = 3 x 2532 = 7596 ea												
202AG8	AASHTO#8 (OLD PA#1B)			204.71	TN		15.670	3,208				3,208
202BCAPS	BLASTING CAPS			1,857.32	EA		5.500	10,215				10,215
202BOOSTER	BOOSTER			5,065.60	EA		4.030	20,414				20,414

AAM-HC
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Jim Watko

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07/30/2012
11:31

Direct Cost Report

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Labor	Perm Material	Constr Mat/Exp	Equip Ment	Sub- Contract	Total
BID ITEM = 2020 Description = STEP 3										
202EXP	EXPLOSIVES		14,070.00 LB	1.000		14,070				14,070
4BLAST	BLASTING - SC		66.05 HR	90.000					5,945	5,945
\$53,851.94				[]		47,907			5,945	53,852
030207510	SEISMOGRAPH			Quant: 9.00 SH	Hrs/Shift: 8.50	Cal: 425	WC: 1			
4SEISMOGRAPH	SEISMOGRAPH		9.00 SH	1,100.000					9,900	9,900
030201010	REPLACE FILL			Quant: 18,466.00 CY	Hrs/Shift: 8.50	Cal: 425	WC: 1			
EBS	BLASTING SUPPORT		313.00 CH	Eff: 100.00	Prod: 58.8051 UH	Lab Pcs: 3.00		Eqp Pcs: 5.00		
8EX345	CAT 345 EXC	1.00	313.00 HR		207.660			71,497		71,497
8LR120	VOLVO 120 LOADER	1.00	313.00 HR		79.100			27,234		27,234
8MAC	AIR COMP (100 CFM)	1.00	313.00 HR		10.010			3,446		3,446
8MTB	TRENCH BOX	2.00	626.00 HR		3.000			2,066		2,066
L	LABORER	1.00	313.00 MH		22.000	13.871				13,871
O2	OPER-COMMON	1.00	313.00 MH		28.150	19,828				19,828
O2A	OPER-HOE-ICY	1.00	313.00 MH		28.150	19,828				19,828
\$157,769.96	0.0510 MH/CY		939.00 MH	[1.508]	53,526		104,244			157,770
Item Totals: 2020 - STEP 3										
\$508,987.07	0.5480 MH/CY		2,312.65 MH	[16.177]	131,607	47,907	14,108	257,581	57,785	508,987
120.613	4220 CY				31.19	11.35	3.34	61.04	13.69	120.61

Total of Above Sub-Biditems

Item Totals: 1010 - BLASTING AS PERFORMED										
\$1,293,498.19	6,335.5500 MH/LS		6,335.55 MH	[175641.29]	331,176	237,946	20,378	483,134	220,865	1,293,498
1,293,498.190	1 LS				331,176.45	237,946.10	20,377.50	483,133.64	220,864.50	1,293,498.19

\$1,293,498.19 *** Report Totals *** 6,335.55 MH 331,176 237,946 20,378 483,134 220,865 1,293,498

>>> Indicates Non Additive Activity

-----Report Notes:-----

The estimate was prepared with TAKEOFF Quantities.

This report shows TAKEOFF Quantities with the resources.

Bid Date: Owner: Engineering Firm:

Estimator-In-Charge: PUBLIC

JOB NOTES

Estimate created on: 05/01/2012 by User#: 22 - Jim Watko

Source estimate used: T:\HEAVYBID\AAM-HC\EST\ESTMAST

Labor Setup copied from: T:\HEAVYBID\AAM-HC\EST\1020034

Equipment Setup copied from: T:\HEAVYBID\AAM-HC\EST\1020034

Crew Setup copied from: T:\HEAVYBID\AAM-HC\EST\1020034

Material/Other Resources Setup copied from: T:\HEAVYBID\AAM-HC\EST\1020034

Overtime Rules Setup copied from: T:\HEAVYBID\AAM-HC\EST\1020034

Burden Tables Setup copied from: T:\HEAVYBID\AAM-HC\EST\1020034

* on units of MH indicate average labor unit cost was used rather than base rate.

[] in the Unit Cost Column = Labor Unit Cost Without Labor Burdens

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Jim Walko

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DIRECT COST REPORT

Page 1
05/10/2012 7:09

Activity Resource	Desc	Quantity Pcs	Unit	Unit Cost	Labor	Perm Material	Constr Mat/Exp	Equip Ment	Sub-Contract	Total
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PARENT ITEM = 1000

Description = BLASTING AS BID

Unit = CY Takeoff Quan: 4,220.000 Engr Quan: 4,220.000

Listing of Sub-BidItems of Parent Item 1000:

BID ITEM = 1001

Description = BLASTING - ALT 1

Land Item SCHEDULE: 1 100

Unit = CY Takeoff Quan: 2,700.000 Engr Quan: 0.000

770.7	TEST DRILL	Quan: 4,600.00 LF	Lf/Shift: 9.00	Cal: 5-9	WC: 1	
DEMO	Demolition	19.40 CH	Eff: 100.00	Prod: 2.1563 S	Lab Pcs: 2.00	Eqp Pcs: 1.00
2MHOUSE	Temp Housing	2.16 S		300.000	648	648
2MPD	Per Diem	2.16 S		250.000	540	540
8MTD	TRACK DRILL W/COMP	1.00	19.41 HR	91.000		1,943
EO4	Excavator/Grader Operator	1.00	19.41 MH	23.000	1,108	1,108
L	LABORER	1.00	19.41 MH	22.000	875	875
\$5,113.83	0.0084 MH/LF	38.82 MH	[0.22]	1.983	1,188	5,114

**Unreviewed

770.1 BLASTING AT

Quan: 2,700.00 CY Hrs/Shift: 9.00 Cal: 5-9 WC: 1

**Unreviewed

Use 6' wide for blast

LP2 Blasting around 80 LF/SH

Cost around \$24/LF L&E

DEMO	Demolition	151.87 CH	Eff: 100.00	Prod: 160.0000 US	Lab Pcs: 4.75	Eqp Pcs: 4.25
2MBLAST	Blasting Material (CY)	2,700.00 CY		3.800	10,260	10,260
2MHOUSE	Temp Housing	16.87 S		300.000	5,061	5,061
2MPD	Per Diem	16.87 S		250.000	4,218	4,218
2MSTEM	Stemming Materials	2,700.00 CY		0.120	324	324
4BSEISMIC	Blasting Seismic Survey	75.94 HR		56.000		4,253
4BSURV	Pre-Blast Survey	1.00 LS		10,000.000		10,000
8LT963	CAT 963 TRACK LOADE	0.25	37.97 HR	61.000		2,548
8MTD	TRACK DRILL W/COMP	2.00	303.75 HR	91.000		30,405
8TPU1	PICKUP	2.00	303.75 HR	11.000		3,675
EO3	Dozer/Loader Operator	0.25	37.97 MH	21.500	2,163	2,163
EO4	Excavator/Grader Operator	2.00	303.75 MH	23.000	17,334	17,334
FRMU	Foreman - Utility	1.00	151.88 MH	30.000	9,161	9,161
L	LABORER	1.50	227.81 MH	22.000	10,272	10,272
\$109,673.49	0.2671 MH/CY	721.41 MH	[7.367]	38.930	19,863	109,673

770.SR HAUL OFF SHOT ROCK

Quan: 2,700.00 CY Hrs/Shift: 8.50 Cal: 425 WC: 1

3MSRDUMP	SHOT ROCK DUMP FEE	340.00 EA	60.000	20,400	20,400
5HDT	Hourly Trucking	340.00 HR	69.000	23,460	23,460
\$43,860.00			[]	43,860	43,860

**Unreviewed

====> Item Totals: 1001 - BLASTING - ALT 1

\$158,647.32	0.2815 MH/CY	760.23 MH	[7.743]	40,913	21,051	43,860	38,571	14,253	158,647
\$8.758	2700 CY			15.15	7.80	16.24	14.29	5.28	58.76

BID ITEM = 1002

Description = BLASTING - ALT 2

Land Item SCHEDULE: 1 100

Unit = CY Takeoff Quan: 620.000 Engr Quan: 0.000

770.SR HAUL OFF SHOT ROCK

Quan: 620.00 CY Hrs/Shift: 8.50 Cal: 425 WC: 1

3MSRDUMP	SHOT ROCK DUMP FEE	78.07 EA	60.000	4,684	4,684
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**Unreviewed

AAM-HC
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DIRECT COST REPORT

Page 2
05/10/2012 7:09

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
BID ITEM = 1002										
Description = BLASTING - ALT 2			Land Item	SCHEDULE: 1	100					
			Unit =	CY	Takeoff Quan:	620.000		Engr Quan:		0.000
5HDT	Hourly Trucking		78.07 HR	69.000		5.387				5.387
\$10,071.03				[]		10.071				10.071
770.1 BLASTING AI										
					Quan:	620.00 CY	Hrs/Shift:	9.00	Cal:	5-9 WC: 1
										**Unreviewed
Use 6' wide for blast										
LP2 Blasting around 80 LF/SH										
Cost around \$24/LF L&E										
DEMO	Demolition	34.87 CH	Eff:	0.00	Prod:	160.0000 US	Lab Pcs:	4.75	Eqp Pcs:	4.25
2MBLAST	Blasting Material (CY)	620.00 CY			3.800	2.356				2.356
2MHOUSE	Temp Housing	3.87 S			300.000	1.161				1.161
2MPD	Per Diem	3.87 S			250.000	968				968
2MSTEM	Stemming Materials	620.00 CY			0.120	74				74
4BSEISMIC	Blasting Seismic Survey	17.44 HR			56.000			977		977
4BSURV	Pre-Blast Survey	0.23 LS			10,000.000			2,300		2,300
8LT963	CAT 963 TRACK LOADE	0.25	8.72 HR		61.000			585		585
8MTD	TRACK DRILL W/COMP	2.00	69.75 HR		91.000			6,982		6,982
8TPUI	PICKUP	2.00	69.75 HR		11.000			844		844
EO3	Dozer/Loader Operator	0.25	8.72 MH		21.500	497				497
EO4	Excavator/Grader Operator	2.00	69.75 MH		23.000	3,980				3,980
FRMU	Foreman - Utility	1.00	34.88 MH		30.000	2,104				2,104
L	LABORER	1.50	52.31 MH		22.000	2,359				2,359
\$25,186.27	0.2671 MH/CY	165.66 MH		[7.367]	8,940	4,559		8,411	3,277	25,186
770.7 TEST DRILL										
					Quan:	2,000.00 LF	Hrs/Shift:	9.00	Cal:	5-9 WC: 1
										**Unreviewed
DEMO	Demolition	8.43 CH	Eff:	0.00	Prod:	0.9375 S	Lab Pcs:	2.00	Eqp Pcs:	1.00
2MHOUSE	Temp Housing	0.94 S			300.000	282				282
2MPD	Per Diem	0.94 S			250.000	235				235
8MTD	TRACK DRILL W/COMP	1.00	8.44 HR		91.000			845		845
EO4	Excavator/Grader Operator	1.00	8.44 MH		23.000	482				482
L	LABORER	1.00	8.44 MH		22.000	381				381
\$2,224.03	0.0084 MH/LF	16.88 MH		[0.221]	862	517		845		2,224
====> Item Totals: 1002 - BLASTING - ALT 2										
\$37,481.33	0.2944 MH/CY	182.54 MH		[8.079]	9,802	5,076	10,071	9,256	3,277	37,481
60.454	620 CY				15.81	8.19	16.24	14.93	5.28	60.45

BID ITEM = 1003										
Description = BLASTING - ALT 3			Land Item	SCHEDULE: 1	100					
			Unit =	CY	Takeoff Quan:	900.000		Engr Quan:		0.000
770.SR HAUL OFF SHOT ROCK										
					Quan:	900.00 CY	Hrs/Shift:	8.50	Cal:	4-25 WC: 1
										**Unreviewed
3MSRDUMP	SHOT ROCK DUMP FEE	113.33 EA			60.000		6,800			6,800
5HDT	Hourly Trucking	113.33 HR			69.000		7,820			7,820
\$14,619.57					[]		14,620			14,620
770.1 BLASTING AI										
					Quan:	900.00 CY	Hrs/Shift:	9.00	Cal:	5-9 WC: 1
										**Unreviewed

Use 6' wide for blast

LP2 Blasting around 80 LF/SH

Cost around \$24/LF L&E

DEMO Demolition 50.62 CH Eff: 0.00 Prod: 160.0000 US Lab Pcs: 4.75 Eqp Pcs: 4.25

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DIRECT COST REPORT

Page 3
05/10/2012 7:09

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Labor	Perm Material	Constr Mat/Exp	Equip Ment	Sub- Contract	Total
BID ITEM = 1003										
Description =	BLASTING - ALT 3			Unit =	SCHEDULE: 1	100				
				CY	Takeoff Quan:	900.000		Engr Quan:		0.000
2MBLAST	Blasting Material (/CY)	900.00	CY	3.800		3,420				3,420
2MHOUSE	Temp Housing	5.62	S	300.000		1,686				1,686
2MPD	Per Diem	5.62	S	250.000		1,405				1,405
2MSTEM	Stemming Materials	900.00	CY	0.120		108				108
4BSEISMIC	Blasting Seismic Survey	25.31	HR	56.000				1,417		1,417
4BSURV	Pre-Blast Survey	0.33	LS	10,000.000				3,300		3,300
8LT963	CAT 963 TRACK LOADE	0.25	12.66	HR	61,000			849		849
8MTD	TRACK DRILL W/COMP	2.00	101.25	HR	91,000			10,135		10,135
8TPUI	PICKUP	2.00	101.25	HR	11,000			1,225		1,225
EO3	Dozer/Loader Operator	0.25	12.66	MH	21,500	721				721
EO4	Excavator/Grader Operator	2.00	101.25	MH	23,000	5,778				5,778
FRMU	Foreman - Utility	1.00	50.63	MH	30,000	3,054				3,054
L	LABORER	1.50	75.94	MH	22,000	3,424				3,424
\$36,523.24	0.2672 MH/CY	240.48	MH	[7.368]	12,977	6,619		12,210	4,717	36,523
770.7	TEST DRILL			Quant: 1,000.00	LF	Hrs/Shft: 9.00	Cal: 5-9	WC: 1		
DEMO	Demolition	4.21	CH	Eff: 0.00	Prod: 0.4688	S	Lab Pcs: 2.00	Eqp Pcs: 1.00		**Unreviewed
2MHOUSE	Temp Housing	0.47	S		300.000	141				141
2MPD	Per Diem	0.47	S		250.000	118				118
8MTD	TRACK DRILL W/COMP	1.00	4.22	HR	91,000			422		422
EO4	Excavator/Grader Operator	1.00	4.22	MH	23,000	241				241
L	LABORER	1.00	4.22	MH	22,000	190				190
\$1,112.03	0.0084 MH/LF	8.44	MH	[0.221]	431	259		422		1,112
====> Item Totals:	1003 - BLASTING - ALT 3									
\$52,254.84	0.2765 MH/CY	248.92	MH	[7.613]	13,408	6,878	14,620	12,632	4,717	52,255
58.061	900 CY				14.90	7.64	16.24	14.04	5.24	58.06
Total of Above Sub-Biditems										
====> Item Totals:	1000 - BLASTING AS BID									
\$248,383.49	0.2823 MH/CY	1,191.69	MH	[7.764]	64,123	33,004	68,551	60,459	22,247	248,383
58.859	4220 CY				15.19	7.82	16.24	14.33	5.27	58.86

\$248,383.49 *** Report Totals *** 1,191.69 MH 64,123 33,004 68,551 60,459 22,247 248,383

>>> Indicates Non Additive Activity

-----Report Notes:-----

The estimate was prepared with TAKEOFF Quantities.

This report shows TAKEOFF Quantities with the resources.

"Unreviewed" Activities are marked.

Bid Date: Owner: Engineering Firm:

Estimator-In-Charge: PUBLIC

JOB NOTES

Estimate created on: 05/01/2012 by User#: 22 - Jim Watko

Source estimate used: T:\HEAVYBID\AAM-HC\EST\ESTMAST

Labor Setup copied from: T:\HEAVYBID\AAM-HC\EST\1020034